

ATFL-1640: SHEET GOODS CONCEPTS

Cuyahoga Community College

Viewing: ATFL-1640 : Sheet Goods Concepts

Board of Trustees:

September 2025

Academic Term:

Fall 2025

Subject Code

ATFL - Appld Indus Tech - Floorlaying

Course Number:

1640

Title:

Sheet Goods Concepts

Catalog Description:

Floor installation requiring special treatment of adhesives and seam, sheet good products requiring interflex systems, heat seam welding and/or chemical welding. Also presented will be product usage and handling and application of concepts and materials.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval: Admissions to Floorlaying Technology apprenticeship program.

Outcomes

Course Outcome(s):

Read prints, cut, and install sheet good flooring in accordance with jobsite specifications and established safety procedures.

Objective(s):

1. Identify the various products used in weld seam and heat seam installation.
2. Apply math concepts to estimate materials, and perform calculations needed for installation.
3. Estimate materials.
4. Interpret blueprints for jobsite specifications.
5. Demonstrate safe use of hand and power tools and material handling.
6. Apply power and hand tool application for seaming installations.

Course Outcome(s):

Properly install various types of bacteria resistant flooring with appropriate adhesive and seam treatment in accordance with jobsite specifications and established safety procedures.

Objective(s):

1. Identify the various types of bacteria resistant flooring.
2. Explain special precautions/procedures that need to be followed when installing bacteria resistant flooring.
3. Identify adhesives appropriate for using with installation of bacteria resistant flooring.
4. Describe appropriate seam treatment techniques for bacteria resistant floors.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Completion of assigned projects

Course Content Outline:

1. Concepts
 - a. Sheet goods and related manufacturing process
 - b. Perimeter calculations
 - c. Area calculations
 - d. Square yardage calculations
 - e. Measurement conversions
 - f. Blueprint reading techniques
 - g. Estimating techniques
 - h. Cutting and trimming tools used in sheet goods installations
 - i. Moisture testing techniques
 - j. Subfloor requirements
 - k. Seaming requirements
 - l. Subfloor preparation techniques
 - m. Sheet good installation techniques
 - n. Types of bacteria resistant flooring
 - o. Procedures for installation of bacteria resistant flooring
 - p. Interflex systems
 - q. Heat seam welding techniques
 - r. Chemical welding techniques
 - s. Pattern matching techniques
 - t. Adhesive selection and application techniques
2. Skills
 - a. Reading blueprints for room location, color and seam layout.
 - b. Estimating material requirements-square yardage.
 - c. Calculating length of sheets to be installed.
 - d. Preparing subfloor
 - e. Selecting adhesives.
 - f. Installing transition strips
 - g. Cutting materials
 - h. Matching pattern and preparing seams.
 - i. Performing heat seam welding.
 - j. Performing chemical welding.
 - k. Installing sheet goods.
 - l. Installing bacteria resistant flooring
 - m. Underscribing or weld seams if applicable.
 - n. Use/operate heat gun
 - o. Use/operate router
 - p. Using trimming knives with sled

Resources

United Brotherhood of Carpenters Apprenticeship and Training Fund of North America. *Floorlaying Standard Skills*. Las Vegas: United Brotherhood of Carpenters Apprenticeship and Training Fund of North America, 2003.

United Brotherhood of Carpenters Apprenticeship and Training Fund of North America. *Floorlaying Resilient Skills I*. Las Vegas: United Brotherhood of Carpenters Apprenticeship and Training Fund of North America, 2003.

United Brotherhood of Carpenters Apprenticeship and Training Fund of North America. *Floorlaying Resilient Skills II*. Las Vegas: United Brotherhood of Carpenters Apprenticeship and Training Fund of North America, 2003.

Armstrong Flooring. *Guaranteed Installation Systems 2004/2005*. Cleveland: AWI Licensing Company, 2004.

Forbo Linoleum Inc. *Installation Manual*. {ts '2004-03-01 00:00:00'}.

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